

**Department of Licensing and Regulatory Affairs, Bureau of Fire Services, Storage Tank Division**

P.O. Box 30033, Lansing, MI 48909  
Phone 517-335-7211, Fax 517-332-1428

## HYDROGEN STORAGE SYSTEMS INSPECTION CHECKLIST

**INSTRUCTIONS:** The Hazardous Materials Storage Inspector shall complete this checklist and attach it to an inspection report, one to be retained in the Region file and one for the Main Office file. All boxes shall be completed inserting N/A where non-applicable.

FACILITY NAME	FACILITY ID NUMBER
CONTACT PERSON ON SITE	FACILITY TYPE

### FACILITY SECTION

SECTION		CODE	VIO	PASS	SECTION		CODE	VIO	PASS
1-8.1	DEPARTMENT APPROVAL BEFORE INSTALLED				2-3.3	THREADED OR FLANGED FITTINGS, OUTDOORS ONLY, EXCEPT GAUGES/VALVES			
1-10.1	TRAINING				2-3.4	ABOVEGROUND PIPING SHALL BE MARKED WITH PRODUCT AND DIRECTION			
2-1.9	VACUUM/LIQUID GAUGE ON OUTLET PIPING OF VAPOR. TEMPERATURE MONITOR ON OUTLET PIPE OF VAPORIZER				2-3.1.2 2-3.4	PIPING SUPPORTED AND PROTECTED			
7-2.2	TANK YARD SECURED				2-3	PIPING MATERIAL AND CP			
3-1.1	SYSTEM ACCESSIBLE				2-4.10	FIRE VALVE/SHUTOFF IN PIPING AT BUILDING			
2-4.1	VALVES MUST COMPLY				3-1.9	TAMPERING PROTECTION			
2-2	PRESSURE RELIEF IN PIPING					ELECTRICAL INSPECTOR APPROVAL			
2-4/3-2.3	EMERGENCY SHUTOFF VALVES, MARKED				3-2.2.1	COMBUSTIBLES >10 FEET AWAY			
2-2.12, 2-4	ANNUAL TESTING DOCUMENTATION OF ESD'S				3-1.3	POWER POLE >5 FEET AWAY			
2-11.2	APPROVED FLEX AT POINT OF TRANSFER				6-4/6-3	FIRE EXTINGUISHER – STRAW BROOM			
3-2.2	POINT OF TRANSFER				3-2.3	VALVE PROTECTION AT DIST POINTS			
2-4.8, 3-2.3	BACKFLOW CHECKVALVE AT FILL				6-3.1	FACILITY MARKINGS (SIGNAGE)			
3-2.3	UNLOADING CONNECTIONS				5-6, 5-5	EMERGENCY PLAN, INCLUDE H2			
4-8, 2-7	GROUNDING CABLE AT FILL					MISCELLANEOUS FACILITY VIOLATION			

### TANK SECTION

SECTION		CODE	VIO	PASS	SECTION		CODE	VIO	PASS
2-1	CONTAINER DESIGN/MARKING				2-3.1.2	CORROSION PORTECTION			
2-2 (7-2.8)	PRESSURE RELIEF DEVICES (Vents)					CATHODIC PROTECTION RECORDS			
2-1.2	RESTS ON PROPER FOUNDATION				3-1.9	CONTAINER AND AREA MARKED			
2-2.6	PRESSURE RELIEF TESTING				2-1.8	OVERFILL PROTECTION			
2-2.7	EXCESS FLOW VALVE				2-5.2	CONTAINER SPECIFICATION			
3-2.2	LOCATION OF CONTAINER				2-5, 2-1.3	3-INCH NO SMOKING – NO OPEN FLAMES Gaseous/Liquefied Hydrogen			
2-1.5	PHYSICAL PROTECTION					WARNING LABEL FOR NON-FILL CYLS			
2-1.2	CONTAINER SUPPORTS AND PROTECTION					MISCELLANEOUS TANK VIOLATION			

COMMENTS \_\_\_\_\_

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INSPECTOR \_\_\_\_\_ DATE \_\_\_\_\_

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**HYDROGEN STORAGE SYSTEMS INSPECTION CHECKLIST**

(continued)

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**DISPENSER SECTION**

SECTION		CODE	VIO	PASS
2-12	DISPENSER VIOLATION			
3-4, 7-2	DISPENSER LOCATION			
3-4, 7-2.3	DISPENSER PROTECTED; DAMAGE/SECURED			
7-2	N0 SMOKING, STOP MOTOR, CONTAINER			
5-1.9	REMAIN OUT OF VEHICLE IN VIEW			
7-5.3	SIGNAGE FOR EMERGENCIES			
7-4.4	OPERATING INSTRUCTIONS POSTED			

SECTION		CODE	VIO	PASS
3-5, 5-1	BREAKAWAY ON HOSE			
5-5, 5-4	BONDING			
4-6.1	EMERGENCY VALVE INSTALLED			
7-2	AUTOMATIC STOP FLOW			
5-1.8	NOZZLE			
7-2	HAZARD ANALYSIS			
7-6	EMERGENCY SHUTOFF DEVICE, 20 FEET TO 100 FEET			